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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/506,999		03/21/2005	Friedrich Franke	HKH-05PCT 8841	
40570	7590	10/03/2005		EXAMINER	
FRIEDRIC			NAZARIO GONZALEZ, PORFIRIO		
317 MADISON AVENUE, SUITE 910 NEW YORK, NY 10017				ART UNIT PAPER NUMBER	
				1621	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/506,999	FRANKE ET AL.					
Office Action Summary	Examiner	Art Unit					
•	Porfirio Nazario-Gonzalez	1621					
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on		-					
	· action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 4-11</u> is/are rejected.	Claim(s) 1 and 4-11 is/are rejected.						
7)⊠ Claim(s) <u>2 and 3</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
3.⊠ Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)		i .					
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5)	atent Application (PTO-152)					
Paper No(s)/Mail Date 6) ☐ Other:							



DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

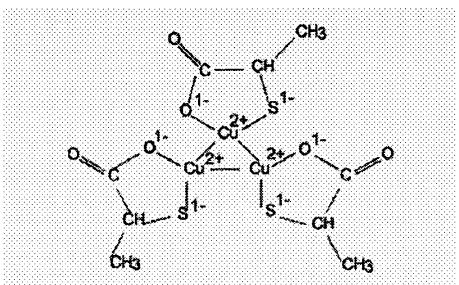
Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The moiety "*CH" in the formula O²-CO-*CH-CH₃ is a trivalent carbon. It is well known in the art of organic chemistry that carbon is tetravalent. Further, the instant specification fails to teach or disclose how to make such trivalent carbon moiety. Thus, one skill in the art would not be able to make and/or use the claimed invention without undue experimentation.

Application/Control Number: 10/506,999 Page 3

Art Unit: 1621

4. Claim 7 recites the limitation "



" in line 4. There is

insufficient antecedent basis for this limitation in the claim. Note that this is a trinuclear copper complex. Claim 6, which claim 7 is dependent, recites a composition of the general formula Cu2+-R2-. This is a mononuclear copper complex and thus the trinuclear complex does not have antecedent basis in claim 6.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The formula O²-CO-CH-CH₃ is incomplete. Note that the moiety "CH" is a trivalent carbon. It is well known in the art that carbon is tetravalent.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 10/506,999 Page 4

Art Unit: 1621

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1, 4, 5, 8 and 10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Gopalakrishnan et al., Inorganic Chemistry, Vol. 6, No. 11, pp.2111-2113 (1967). The Gopalakrishnan et al. article discloses a Cu(II) levulinate hydrate complex which is obtained by reacting copper carbonate compound with levulinic acid. See experimental section.
- 9. Claims 1, 6 and 7 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Chemical Abstract, abstract no. 105824, 1975. The chemical abstract discloses a trinuclear complex Cu₃L₃·4.5H₂O where L is MeCH(S)COO.
- 10. Claims 1, 8, 9 and 11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Chemical Abstract, abs. no. 122:70952, XP002247912, cited by Applicants. The chemical abstract discloses the chelation of Cu(II) ions with 2-mercaptopropionic acid to form a complex having a 1:1 ratio of metal to ligand.

Allowable Subject Matter

11. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Porfirio Nazario-Gonzalez whose telephone number is 571-272-0641. The examiner can normally be reached on Mon.-Fri. (9:30 AM - 6:00 PM).

Application/Control Number: 10/506,999 Page 5

Art Unit: 1621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Patent Examiner

PNG September 27, 2005